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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,383	02/05/2002	Marco Thyes	0480-01211	2952
26474	7590 05/26/2004		EXAM	INER
KEIL & W		OH, TAYLOR V		
1350 CONNECTICUT AVENUE, N.W. WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1625	
			DATE MAILED: 05/26/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/889,383	THYES ET AL.	
Office Action Summary	Examiner	Art Unit	
	Taylor Victor Oh	1625	
The MAILING DATE of this communication and Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory peri Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. R.1.136(a). In no event, however, may a lively within the statutory minimum of thir id will apply and will expire SIX (6) MON atute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 LLS C. 8.133)	
Status			
1) Responsive to communication(s) filed on 01	September 2003.		
2a) This action is FINAL . 2b) This action is non-final.			
3) Since this application is in condition for allow			
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1 is/are pending in the application.			
4a) Of the above claim(s) is/are withd	rawn from consideration.	·	
5) Claim(s) is/are allowed.			
6) Claim(s) 1 is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	1/or election requirement.		
Application Papers		•	
9)☐ The specification is objected to by the Exami	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the		` ·	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreigna) All b) Some * c)⊠ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
3. Copies of the certified copies of the pr		received in this National Stage	
application from the International Bure			
* See the attached detailed Office action for a li	st of the certified copies not	received.	
Attachment(s)			
) Notice of References Cited (PTO-892)) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview S	Summary (PTO-413)	
 Molice of Dialisperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 7/2001.)8) 5) Notice of In	s)/Mail Date formal Patent Application (PTO-152)	
Patent and Trademost Office.	6) Other:	_	

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The Status of Claims

Claim 1 is pending.

Claim 1 has been rejected.

DETAILED ACTION

1. Claim 1 is under consideration in this Office Action.

Drawings

2. None.

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Warner Lambert Pharmaceutical Co.(GB 1226318).

1. Determining the scope and contents of the prior art

Warner Lambert Pharmaceutical Co discloses a process for reducing the content of ethyl 3-dimethylamino-2-phenylpropionate in a mixture containing ethyl 2 –

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dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate, which has been exemplified in the following (see col.4, lines 25 -70):

Example 1

(A) Separation Procedure In this example, 40.2 grams (0.32 mol) of oxalic acid alhydrate, 281.0 grams of a mixture containing 3 - cis - dimethylamino -4 - phenyl -4 - cis - carbethoxy $-\Delta^1 -$ cyclo hexene and 3 - trans - dimethylamino -4 phenyl - 4 - trans - carbethoxy - \(\Delta^1 - \text{cyclo} hexene and 460 ml of n-butyl alcohol were charged into a suitable reaction versel. It had been determined by gas liquid chromatography that the isomeric mixture employed contained 28.1%, equivalent to 79.0 grams (0.29 mol) of the trans- isomer. The reaction mixture was heated to a temperature of about 85° C. and it was maintained at that temperature until a solution resulted. The heating time was about 15 minutes. The solution, thus obtained, was cooled to a temperature of about 5° C. and 3 - trans - dimethylamino -4 - phenyl - 4 - trans - carbethoxy - Δ^{t} cyclohexene oxalate came out of solution in the form of a precipitate. In order to insure complete precipitation of the oxalate salt of the trans- isomer, the reaction mixture was maintained at a temperature within the range of from about 0° C. to about 5° C. for a period of about one hour. At the end of that period, the oxalic acid salt of the transisomer was collected by filtration. The salt was, thereafter, washed two times using 70 ml. of cold n-butyl alcohol each time. The salt was subsequently dried at a temperature of 65° C. and there was obtained 96.5 grams (0.266 mel) of 3 - trans - dimethyl amino - 4 - phenyl - 4 - trans - carbethoxy - Δ^1 - cyclohexene oxalate having a melting point at 124.5° C. to 127° C. The yield of the oxalic acid salt of the trans- isomer obtained was equivalent to 72.5 grams of 3 - trans - dimethylamino - 4 - phenyl - 4 -

trans - carbethoxy - Δ^1 - cyclohexene in the form of the free base. Thin layer chromatography indicated the presence in the product of less than about 0.1% of the cis- isomer and less than about 0.25% of ethyl 2 - phenyl - 3 - dimethylaminopropionate.

Furthermore, in the separation procedure, a ratio of from 1 to 1.2 mol of oxalic acid or fumaric acid per each mol of trans-isomer present in the isomeric mixture (see col. 2, lines 99-102).

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Moreover, the ethyl 2 –dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate compound has been known for having a therapeutic activity as analgesics (see first page, lines 60-66).

2. Ascertaining the differences between the prior art and the claims at issue

The instant invention, however, differs from the prior art in that the claimed content of ethyl 3-dimethylamino-2-phenylpropionate in the mixture is less than 0.1 %.

3. Resolving the level of ordinary skill in the pertinent art

Even so, the prior art does teach that the content of ethyl 3-dimethylamino-2-phenylpropionate present in the final product (a trans form of ethyl 2 –dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate) is less than 0.25 % in the mixture (see col. 4, lines 69-70). Therefore, it would have been obvious to the skilled artisan in the art to have motivated to reduce its content of impurity further to a less than 0.1 % in order for the desired final product to be used as a safe analgesic drug.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness

Warner Lambert Pharmaceutical Co does disclose the process for reducing the content of ethyl 3-dimethylamino-2-phenylpropionate to a less than 0.25 % in the mixture (see col. 4, lines 69-70) containing ethyl 2 –dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate; furthermore, it is well-known that the ethyl 2 – dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate compound has possessed the therapeutic activity as analgesics. Therefore, it would have been obvious to the skilled artisan in the art to have motivated to reduce its content of impurity further to a less than

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0.1 % for purpose of using the desired final product as a safe analysesic drug. This is because the skilled artisan in the art would expect the purest compound to be the safest drug suitable for the therapeutics.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taylor Victor Oh whose telephone number is 571-272-0689. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mckane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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